

AMENDMENTS TO THE CLAIMS

1-6. (canceled)

7. (previously presented) A process comprising:

introducing at least one monomer, at least one catalyst, and at least one diluent into an

olefin polymerization zone under polymerization conditions, wherein the at least

one monomer is polymerized to form at least one polyolefin, and wherein the

olefin polymerization zone comprises a slurry polymerization reactor that is a

loop reactor or a stirred tank reactor;

withdrawing an effluent from the olefin polymerization zone, and introducing the effluent

into a separation zone in which the effluent is separated into a polyolefin lean

stream and a polyolefin rich stream;

passing the polyolefin rich stream to an agglomerating zone, in which polyolefin is

agglomerated;

introducing at least one catalyst deactivating agent into the olefin polymerization zone for

a selected time in an amount effective to substantially deactivate at least part of

the at least one catalyst, whereby the polymerization of the at least one monomer

is substantially stopped or the rate of polymerization is substantially slowed; and

restarting polymerization by introducing into the olefin polymerization zone at least one

catalyst.

8. (original) The process of claim 7, wherein the polyolefin rich stream is passed directly to the agglomerating zone, without first passing through a storage zone.

9. (original) The process of claim 7, wherein the agglomerating zone comprises an extruder, and polyolefin is extruded in the agglomerating zone.

10-14. (canceled)

15. (previously presented) A process comprising:

introducing at least one monomer, at least one catalyst, and isobutane into an olefin polymerization zone under polymerization conditions, wherein the at least one monomer is polymerized to form at least one polyolefin, and wherein the olefin polymerization zone comprises a slurry polymerization reactor that is a loop reactor or a stirred tank reactor;

introducing at least one catalyst deactivating agent into the olefin polymerization zone for a selected time in an amount effective to substantially deactivate at least part of the at least one catalyst, whereby the polymerization of the at least one monomer is substantially stopped or the rate of polymerization is substantially slowed; and restarting polymerization by introducing into the olefin polymerization zone at least one catalyst.

16-19. (canceled)